

WTCL-43-P

W99-1199 AMER. BUREAU OF SHIP'G  
Addition of New Offices  
WTCL 91#1

# Quality Assurance Division Design Standards

TAA No. W-991199 Charge Code: WDZ 200 444

Tenant: AMERICAN BUREAU OF SHIPPING

## REVIEW STATUS

[illegible]



August 6, 2001

Mr. Michael G. Fahey  
Michael G. Fahey, Architects  
5 Great Jones Street, Suite 1  
New York, N.Y. 10012

**SUBJECT: AMERICAN BUREAU OF SHIPPING  
1 WORLD TRADE CENTER - 91<sup>ST</sup> FLOOR  
ADDITION OF NEW OFFICES  
TAA#991199  
SUBMISSION #4 - APPROVAL**

Dear Mr. Fahey:

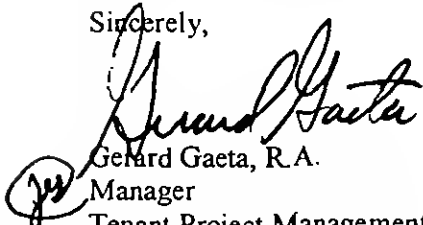
This letter responds to your submittal dated July 19, 2000, requesting review of the documents listed in Attachment A to this letter. The subject Tenant Construction or Alteration Application TAA 991199, which was conditionally approved on Dec. 7, 1999, has now been approved. There are no further comments.

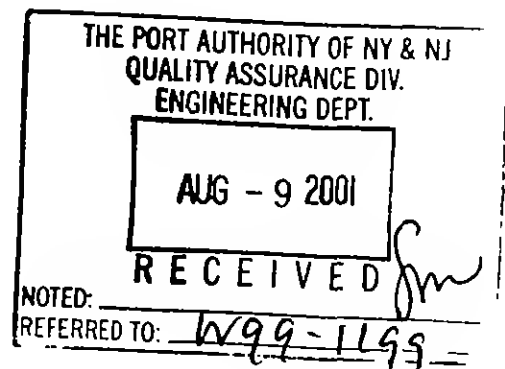
Any changes to the already approved scope of work must be submitted to The Port Authority of N.Y. & N.J. for review and approval prior to commencement of associated work. Only contract documents reviewed and approved by this office are to be released to the field for construction.

At the completion of construction, please submit a set of signed and sealed Mylar reproducible stamped As-Built with the Tenant Construction or Alteration Application number denoted on each drawing plus a complete set of CADD diskettes formatted for AutoCAD 14 or 2000. In addition, provide two (2) independent disks for Fire Alarm only.

All correspondence or inquiries should be directed to: Don DiDomenico, Project Manager, at The Port Authority of N.Y. & N.J., One World Trade Center, 88 South, New York, N.Y. 10048, (212) 435-4087; fax (212) 435-2408.

Sincerely,

  
Gerard Gaeta, R.A.  
Manager  
Tenant Project Management  
The World Trade Department



cc: Mr. Donald Birney : A.B. of S.

**ATTACHMENT A - LIST OF DRAWINGS**

**AMERICAN BUREAU OF SHIPPING  
1 WORLD TRADE CENTER – 91<sup>ST</sup> FLOOR  
ADDITION OF NEW OFFICES  
TAA#991199  
SUBMISSION #4- APPROVAL**

<u>DRAWING NO.</u>		<u>DATE</u>
A0	General Notes, Abbreviations, Legend, List Of Drawings, Key Plan	11/03/99
A1	Demolition Plan	11/03/99
A2	Construction / Egress Plan	11/03/99
A3	Reflected Ceiling Plan	11/03/99
A4	Finish Plan	11/03/99
A5	Furniture Plan	11/03/99
A6	Details	11/03/99
A7	Specifications	11/03/99
M1	Mechanical Specifications	11/04/99
M2	Mechanical Plan	11/04/99
SP1	Sprinkler Plan	11/04/99
E1	Electrical Specifications	11/04/99
E2	Electrical Lighting Plan	11/04/99
E3	Electrical Power Plan	11/04/99
E4	Electrical Power Demolition Plan	11/04/99

End of list of drawings-8-6-01 ...

bcc: S. Bhol, G. Gaeta, M. Hanna, A. Serpe, J. Gertler, N. Seliga, R. Benacchio,  
D. Di Domenico, P. Ortiz

A handwritten signature in black ink, appearing to be 'D. Di Domenico'.

**THE PORT AUTHORITY OF NY & NJ**

**Memorandum**


**TO:** Gerard Gaeta, Manager, Tenant Project Management, WTD  
**FROM:** C. John Lin  
**DATE:** August 2, 2001  
**SUBJECT:** WTC- ALTERATION APPLICATION W-991199 – AMERICAN  
BUREAU OF SHIPPING – 1 WTC, 91<sup>ST</sup> FLOOR – ADDITION OF  
NEW OFFICES  
**REFERENCE:** Review Request dated 07/20/01  
**COPY TO:** A. Fadavi, J. Gertler, M. Hanna, Job Folder

The documents submitted with the referenced request have been reviewed.

The previous conditional approval for construction is now changed to full **approval**.

There are no further comments.

**REMARKS:** 1) See the attachment for a revised list of approved drawings.  
2) Copy Line distribution was via "Outlook" only.

  
C. John Lin, P.E.  
Manager  
Quality Assurance Division

I.D.: W99-1199-004  
AF/ddh  
att.

**Reviewers:**  
A. Ferrera, Coordinator; W. Lipsky, Structural.

## ATTACHMENT

### ALTERATION APPLICATION W-991199

The following is a revised list of approved drawings. All changes from the previous list are shown in boldface:

<u>Drawings</u>	<u>Dated</u>	<u>Revised</u>
Cover Sht	• 11/03/99 •	/ /
A0	• 11/03/99 •	/ /
A1	• / / •	02/17/00
A2	• / / •	12/23/99
A3	• / / •	02/17/00
A4	• 11/03/99 •	/ /
<b>A5</b>	• / / •	<b>07/19/01</b>
A6	• 11/03/99 •	/ /
A7	• 11/03/99 •	/ /
M-1	• 11/04/99 •	/ /
M-2	• 11/04/99 •	/ /
E-1	• 11/04/99 •	/ /
E-2	• 11/04/99 •	/ /
E-3	• / / •	12/17/99
E-4	• 11/04/99 •	/ /
SP-1	• / / •	12/17/99

**THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY  
TENANT ALTERATION APPLICATION REVIEW REQUEST**

Facility :1 WTC Floor: 91<sup>st</sup> TAA No. 991199 Date: July 20, 2001

DISTRIBUTION		
No	To	Facility
3	QAD	PATC ZIP43
	D. Warren	PATC ZIP43
	S.P. Chiao	88-S
	R. Waffenschmidt	88-S
	B. Brown	88-S
	LERA	2WTC 35FL
	G. Gaeta	88-S
	R. Simonetti CADD Disk set	2WTC 35-N
	A. Burton	2WTC 35-N
	S. Batra	2WTC 35-N
	C. Semah	86 <sup>th</sup> .fl

TENANT: AMERICAN BUREAU OF SHIPPING

Consultant: Michael G. Fahey Architects

Estimated Cost: \$50,000.00 Submittal No. 4

Description of Work: ADDITION OF NEW OFFICES

Please review the attached  
(revised) application and  
send comments to:

Project Manager: Don DiDomenico

Location: 1 WTC - 88 - South

Phone: 435- 4087

Fax: 435- 2408

**DUE DATE**  
**08/03/01**

DESIGN DISCIPLINES

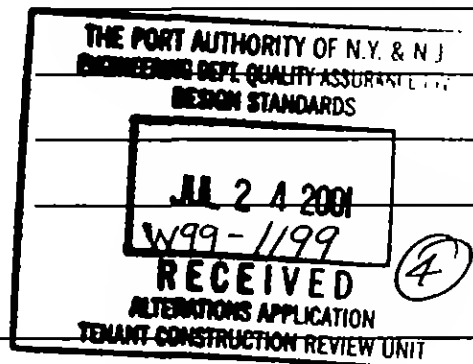
- ☐ Architectural
- ☐ Egress Analysis
- ☒ Structural
- ☐ HVAC
- ☐ Plumbing
- ☐ Sprinkler
- ☐ Electrical
- ☐ Utility > 600 V
- ☐ Civil
- ☐ Geotechnical
- ☐ Environmental
- ☐ Fueling
- ☐ Radio Freq. Coord.
- ☐ Corrosion Protection
- ☐ Elevator / Escalator
- ☐ Other \_\_\_\_\_

ATTACHMENTS

- ☐ Document List
- ☐ Contract Drawings
- ☐ Contract Specifications
- ☐ Tenant Response
- ☒ Computations
- ☐ Reports
- ☐ Catalog Cuts
- ☐ Copy of TAA
- ☐ Other \_\_\_\_\_

Special Instructions

DESCRIPTION



Copy To: J. Gertler, M. Hanna, P. Ortiz,  
J. Panio, N. Seliga, A. Serpe.

 7/20/01  
Signature

**OFFICE COPY**



Michael G. Fahey Architects

July 19, 2001

Mr. Don Di Domenico  
Tenant Alteration Application Unit  
World Trade Department  
1 World Trade Center, 88<sup>th</sup> Floor  
New York, New York 10048

Re: **American Bureau of Shipping**  
**T.A.A. # 991199**

We hereby submit the appropriate revisions for your comments. The comments and revisions are resolved as follows:

Quality Assurance Division

Structural

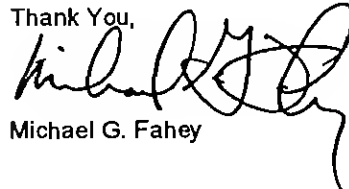
1) Drawing A-5, Furniture Plan, Revised Calculations:

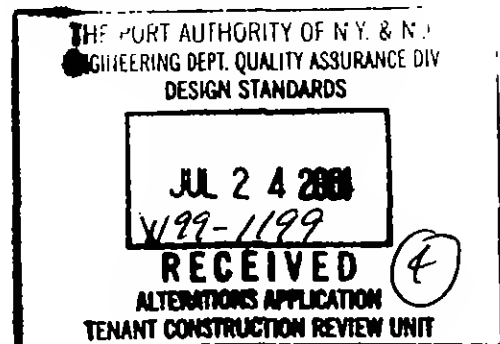
a) The weight of the file cabinets shall be treated as a concentrated load or groups of concentrated loads and shall not be distributed over the entire floor area. See NYC Building Code Section 27-557(b)(2).

b) Drawing STR-01 in the World Trade Center's " Architectural and Structural Design Guidelines, Specifications and Standard Details " dated February 27<sup>th</sup>, 1998, specifies that 100 psf can be imposed on a 200 sq.ft. area if 28 psf is imposed everywhere else in the two-way corner area. Please revise the calculation accordingly.

We have proven that using the above - mentioned principle of 100psf can be imposed on a 200 sq.ft, that the proposed file density load is 44psf. See A-5 for revised calculation.

Thank You,

  
Michael G. Fahey



5 Great Jones Street  
Suite 1  
New York, NY 10012  
212 228-0525  
212 228-1820 FAX

**OFFICE COPY**

**THE PORT AUTHORITY OF NY & NJ****Memorandum**

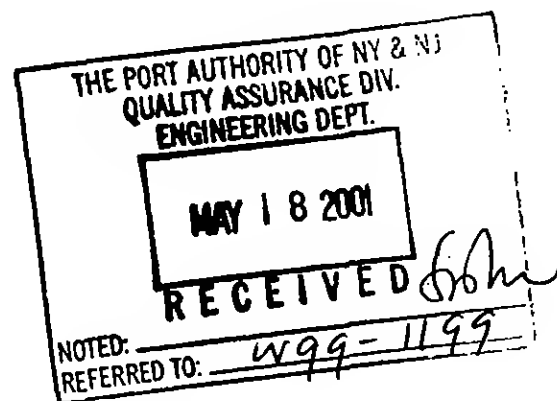
**TO:** M. Hanna, Resident Engineer  
**FROM:** Ali Fadavi  
**DATE:** May 16, 2001  
**SUBJECT:** WORLD TRADE CENTER – TAA W-991199 – AMERICAN BUREAU OF SHIPPING – 1 WTC, 91<sup>ST</sup> FLOOR – ADDITION OF NEW OFFICES  
**COPY TO:** Abu-Ghallow, Bhol, De Martini, Ruff, Schiller, File (2)

On May 7, 2001, Mr. Schiller attended an inspection of the construction performed under the subject TAA.

Since open list items of work remain to be completed, QAD Design Standards comments of March 3, 2000 remain to be addressed and Risk Management's written concurrence for the fire protection system, has not yet been obtained by your office, please inform my office in writing as soon as these items have been completed so that the subject TAA can be re-inspected.



Ali Fadavi, P.E.  
Engineer of Projects  
Quality Assurance Division





## Memorandum

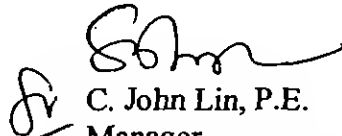
**TO:** Teresa Koebel, Manager, World Trade Project Management  
**FROM:** C. John Lin  
**DATE:** March 3, 2000  
**SUBJECT:** WTC- ALTERATION APPLICATION W-991199 - AMERICAN  
BUREAU OF SHIPPING - 1 WTC, 91<sup>ST</sup> FLOOR - ADDITION OF  
NEW OFFICES  
**REFERENCE:** Review Request dated 02/18/00  
**COPY TO:** A. Fadavi, J. Napolitano, E. Moscovitz, J. Richardson, M. Finegold,  
Job Folder

A review of the material submitted with the referenced request has been made.

The previous recommendation that **approval** to proceed with construction be given **subject** to..., remains unchanged pending submission of the items listed below being revised in accordance with the **one (1) requirement** listed on the attached rider.

Drawings: Reports:

- REMARKS: 1) See the attachment for a revised list of drawings recommended for approval.
- 2) This memorandum was transmitted via Outlook on 03/03/00.

  
C. John Lin, P.E.  
Manager  
Quality Assurance Division

I.D.: W99-1199-003  
CSL/lm  
att.

Reviewers:  
C.S. Lee, Coordinator; S. Carroll, Structural.



## **RIDER**

### **ALTERATION APPLICATION W-991199**

#### **STRUCTURAL**

1. Drawing A-5, Furniture Plan, Revised Calculations:
  - a) The weight of the file cabinets shall be treated as a concentrated load or groups of concentrated loads and shall not be distributed over the entire floor area. See NYC Building Code Section 27-557(b)(2).
  - b) Drawing STR-01 in the World Trade Center's "Architectural and Structural Design Guidelines, Specifications and Standard Details" dated February 27, 1998, specifies that 100 psf can be imposed on a 200 sq.ft. area if 28 psf is imposed everywhere else in the two-way corner area. Please revise the calculation accordingly.

030300

## ATTACHMENT

### ALTERATION APPLICATION W-991199

**Subject to compliance** with the requirements listed in this memorandum's rider, the following is a revised list of drawings recommended for approval. All changes from the previous list are shown in boldface:

DRAWINGS-----	DATED--	REVISED
Cover Sht	·11/03/99·	/ /
A0	·11/03/99·	/ /
<b>A1</b>	· / /	· <b>02/17/00</b>
A2	· / /	·12/23/99
<b>A3</b>	· / /	· <b>02/17/00</b>
A4	·11/03/99·	/ /
<b>A5</b>	· / /	· <b>02/17/00</b>
A6	·11/03/99·	/ /
A7	·11/03/99·	/ /
M-1	·11/04/99·	/ /
M-2	·11/04/99·	/ /
E-1	·11/04/99·	/ /
E-2	·11/04/99·	/ /
E-3	· / /	·12/17/99
E-4	·11/04/99·	/ /
SP-1	· / /	·12/17/99

030300

REVIEWER: STEVEN L. CARROLL

3 / 1 /00

COORDINATOR: C. S. LEE

**RIDER**

**ALTERATION APPLICATION W99-1199**

## **STRUCTURAL**

### **1. Drawing A-5, Furniture Plan, Revised Calculations:**

- a) The weight of the file cabinets shall be treated as a concentrated load or groups of concentrated loads and shall not be distributed over the entire floor area. See Code Section 27-557(b)(2).
- b) Drawing STR-01 in the "Architectural and Structural Design Guidelines, Specifications and Standard Details," specifies that 100 psf can be imposed on a 200 sq.ft. area if 28 psf is imposed everywhere else in the two-way corner area.

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY  
TENANT ALTERATION APPLICATION REVIEW REQUEST

Revised 2/00  
3/6

DISTRIBUTION		
No.	To	Facility
4	QAD	PATC Zip 73
1	D. Warren	PATC Zip 43
1	S.P. Chiao	88 S
1	G. Daly	88 S
1	B. Brown	88 S
1	E. Cornelius/Nick Streak - LERA	2 WTC 35 <sup>th</sup> Fl
1*	R. Simonetti	2 WTC 35 <sup>th</sup> Fl
1*	CADD Disk Set	35 <sup>th</sup> Fl
1	F. DeMartini	88 S
1	P. Negron	2 WTC 35 <sup>th</sup> Fl
1	S. Batra	2 WTC 35 <sup>th</sup> Fl
1	C. Semah	86 <sup>th</sup> Fl

Facility 1 WTC Floor 914 FL  
TAA No. 991199 Date 2/18/00

Application/Tenant AMERICAN BUREAU OF SHIPPING  
Consultant MICHAEL A. FARLEY "ARCH"

Estimated Cost \$50,000 Submittal No. (3) Three

Description of Work ADDITION OF NEW OFFICES

\* for each submission

Please review the application and send comments to:

Name: CARLO J. SAAVEDRA  
Location: 1 WTC, 88S Phone No. 435-2922  
Fax No.: 435-8168

3/3/00  
DATE FILE

**DESIGN DISCIPLINES**

- ☐ Architectural
- ☐ Egress Analysis
- ☐ Structural
- ☐ HVAC
- ☐ Plumbing
- ☐ Sprinkler
- ☐ Electrical
- ☐ Utility > 600 V
- ☐ Civil
- ☐ Geotechnical
- ☐ Environmental
- ☐ Fueling
- ☐ Radio Freq. Coord.
- ☐ Corrosion Protection
- ☐ Elevator/Escalator
- ☐ Other

**ATTACHMENTS**

- ☐ Document List
- ☐ Contract Drawings
- ☐ Contract Specifications
- ☐ Tenant Response
- ☐ Computations
- ☐ Reports
- ☐ Catalog Cuts
- ☐ Other

**SPECIAL INSTRUCTIONS**

**DESCRIPTION**

**OFFICE COPY**

THE PORT AUTHORITY OF N.Y. & N.J.  
ENGINEERING DEPT. QUALITY ASSURANCE DIV.  
DESIGN STANDARDS

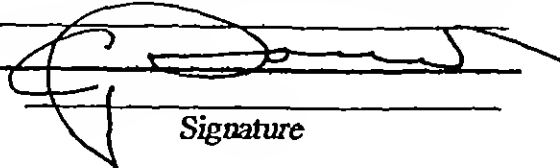
FEB 22 2000

W99-1199

RECEIVED

ALTERATIONS APPLICATION  
TENANT CONSTRUCTION REVIEW UNIT

Copy to: R. Benacchio, T. Koebel, J. Napolitano,  
L. Menno, E. Monteverde, E. Moscovitz,  
J. Richardson, J. Ruiz, N. Seliga, F. Varriano  
(Proj. Mgr.)  
(Zone Prop. Mgr.)

  
Signature

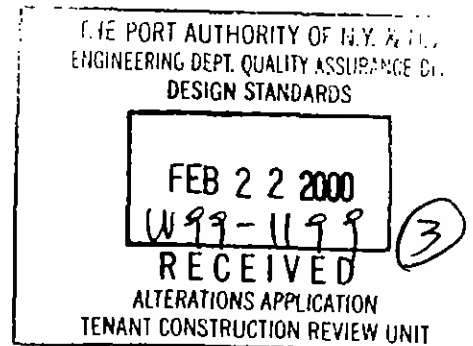
Michael G. Fahey Architects

OFFICE COPY

February 14, 2000

Mr. Carlos Saavedra  
Tenant Alteration Application Unit  
World Trade Department  
1 World Trade Center, 88<sup>th</sup> Floor  
New York, New York 10048

Re: American Bureau of Shipping  
T.A.A. # 991199



We hereby submit the appropriate revisions for your comments. The comments and revisions are resolved as follows:

Quality Assurance Division

Structural

- 1) Drawing A3
  - a). Typical hung ceiling details A, B AND C. Indicate that the 1/4" dia. Ceiling hangers are to be galvanized.  
  
***Drawing Indicated as per your request. See revised dwg. A3***
  - b). Ceiling notes. Indicate carry channels to be 2" instead of 1 1/2" and delete reference to #9 spring steel wire as metal clip. Show BSA catalog number of the direct hung clip instead.  
  
***The above mentioned comments have been made to dwg A3. See revised dwg. A3.***

- 2) Drawing A5, Furniture Plan. The load of office file drawers shall be a minimum of 33 psf/tier as per WTC Standards. Please revise the calculations.

***See A5 for revised calculations.***

World Trade - Structural

- 3) Drawing No. A5, Furniture Plan:
  - b) Response to comment is noted. The WTC Structural Design Guidelines require that 33psf per tier be used for load calculation for files. This would result in a 165 psf live load for 5- tier files. Consequently, the structural calculations submitted are not valid, and the comment is repeated:

5 Great Jones Street  
Suite 1  
New York, NY 10012  
212 228-0525  
212 228-1820 FAX



## Michael G. Fahey Architects

### *Continued:*

Please provide structural calculations demonstrating that the design load is not Exceeded or that the floor system is not overstressed due to the load from the High ~density files, other concentrations of files and shelves used for libraries or Paper storage. In the calculations for the southwest corner, consider the loading in the entire two-way corner zone including adjacent offices. See WTC Structural Design Guide lines, Drawing No. STR-01, for design live load.

***See A5 for revised calculations.***

### Fire Alarm

#### 4) Drawing A1

Note 2.0 Demolition- add the following World Trade Center Standard Note: Preserve existing base building Fire Alarm Equipment before, during and After demolition. No device, appliance, wiring or other BBFAS equipment is to be removed or disabled until such time as replacement equipment is operational. Prior to demolition work the WTC BBFAS maintenance Supervisor shall be contacted at 435-5005 for coordination purposes Only the WTC Maintenance Contracted (Siemens - Cerberus Division /Special Projects) is Authorized to perform work on existing WTC BBFAS system equipment (BBFAS- Base Building Fire Alarm System)

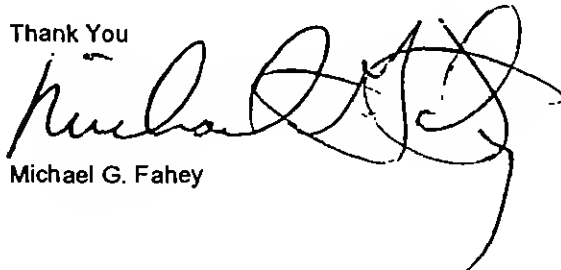
***The above-mentioned note has been added to dwg A1.***

### General

This floor is slated for future PA WTD Phase 111 upgrade, design professional To respond if this provision precluded the submission if the WTC BBFAS Design. In any case Minimum Class E Audio EVAC is audibility of phase 11 Evacuation signal in all areas for occupancy. Design professional responsible to assure that occupancy conditions are met.

***The occupancy conditions have been met for space occupied by the American Bureau of Shipping.***

Thank You



Michael G. Fahey

Michael G. Fahey Architects

TRANSMITTAL

Date: February 17<sup>th</sup>, 2000

To: Carlos Saavedra

From: Renee Ferguson

Re: Project: American Bureau of Shipping (ABS)  
Location: World Trade Center, NYC

Message:

Dear Mr. Saavedra,

Enclosed for your review are 10 blue print sets of revised dwgs.  
A1, A3 & A5. Also submitted herewith are the written response to the comments.  
Please call with any questions.

OFFICE COPY

Very truly yours,



Renee Ferguson

THE PORT AUTHORITY OF N.Y. & N.J.  
ENGINEERING DEPT. OF INSURANCE DIV.  
DESIGN STANDARDS

FEB 22 2000  
W99-1199 (3)

RECEIVED  
ALTERATIONS APPLICATION  
TENANT CONSTRUCTION REVIEW UNIT

5 Great Jones Street  
Suite 1  
New York, NY 10012  
212 228 0525  
212 228 1820 FAX

**THE PORT AUTHORITY OF NY & NJ**



ONE WORLD TRADE CENTER  
NEW YORK, NY 10048

January 19, 2000

Mr. Donald Bimey, V.P.  
American Bureau of Shipping  
2 World Trade Center - 106<sup>th</sup> Floor  
New York, N.Y. 10048

THE PORT AUTHORITY OF NY & NJ  
QUALITY ASSURANCE  
ENGINEERING DEPT  
JAN 28 2000  
RECEIVED

Re: American Bureau of Shipping - One World Trade Center - 91<sup>st</sup> Floor  
TAA 991199 - Submission Two - Conditional Approval

W99-1199

Dear Mr. Bimey:

This letter responds to your submittal dated November 10, 1999 requesting a review of the documents listed in Attachment A to this letter. As a result of our review, the Conditional Approval status given to this Tenant Alteration Application 991199 on December 12, 1999 remains unchanged subject to compliance with the comments listed in Attachment B to this letter. We strongly recommended that these comments be transmitted to your contractor.

Incorporate the requirements of the comments into the construction documents, and respond to each of the comments in writing, and submit (10) ten sets of the revised drawings by February 2, 2000. The revised documents shall be signed and sealed by the Engineer or Architect of record who is licensed to practice in the State of New York. Indicate the latest revision number on each drawing in the title box, circle each revision and place the latest revision number inside a triangle. Your cooperation in meeting the submission date for comment resolution will assist in meeting your client's schedule for occupancy.

Any changes to the already approved scope of work must be submitted to the Port Authority of New York and New Jersey for review and approval prior to the commencement of associated work. Only contract documents reviewed and approved by this office are to be released in the field for construction.

All correspondence or inquiries should be directed to Mr. Carlo J. Saavedra, Project Manager, Tenant Project Management, at the Port Authority of New York and New Jersey, One World Trade Center, 88<sup>th</sup> Floor South, New York, N.Y. 10048. Telephone (212) 435-2922, fax (212) 435-8168.

Sincerely,

Joseph P. Napolitano  
Program Manager, Design Build  
Supervisor, Tenant Alteration Applications  
Tenant Project Management  
The World Trade Department

/cjs

bcc: S.Bhol, R. Benacchio, J. Castaldo, A. Fadavi, T. Koebel, E. Moscovitz, S. Murray, J. Napolitano, J. Picone, C.J. Saavedra, N. Seliga, Central File, Chrono File



**Attachment A - List of Documents  
One World Trade Center – 91<sup>st</sup> Floor  
TAA 991199 – Submission Two  
American Bureau of Shipping**

<u>Drawing</u>	<u>Title</u>	<u>Date</u>
A0	General Notes, Abbreviations, Legend, List Of Drawings, Key Plan	11/03/99
A1	Demolition Plan	11/03/99
A2	Construction / Egress Plan	11/03/99
A3	Reflected Ceiling Plan	11/03/99
A4	Finish Plan	11/03/99
A5	Furniture Plan	11/03/99
A6	Details	11/03/99
A7	Specifications	11/03/99
M1	Mechanical Specification	11/03/99
M2	Mechanical Plan	11/03/99
SP1	Sprinkler Plan	11/03/99
E1	Electrical Specifications	11/03/99
E2	Electrical Lighting Plan	11/03/99
E3	Electrical Power Plan	11/03/99
E4	Electrical Power Demolition Plan	11/03/99



**Attachment B - List of Comments  
One World Trade Center – 91<sup>st</sup> Floor  
TAA 991199 - Submission Two  
American Bureau of Shipping**

**Quality Assurance**

**Structural**

1. Drawing A3
  - a). Typical Hung Ceiling Details A, B and C. Indicate that the 1/4" dia. Ceiling hangers are to be galvanized.
  - b) Ceiling Notes. Indicate carrying channels to be 2" instead of 1 1/2" and delete reference to #9 spring steel wire as metal clip. Show BSA catalog number of the direct hung clip instead.
2. Drawing A5, Furniture Plan. The load of office file drawers shall be a minimum of 33 psf/tier as per WTC Standards. Please revise the calculations.

**World Trade**

**Structural**

3. Drawing No. A5, Furniture Plan:

**REPEAT COMMENT**

b) Response to comment is noted. The WTC Structural Design Guidelines require that 33psf per tier be used for load calculations for files. This would result in a 165 psf live load for 5 - tier files. Consequently, the structural calculations submitted are not valid, and comment is repeated:

Please provide structural calculations demonstrating that the design live load is not exceeded or that the floor system is not overstressed due to the load from the high-density files, other concentrations of files and shelves used for libraries or paper storage. In the calculations for the southwest corner, consider the loading in the entire two-way corner zone including adjacent offices. See WTC Structural Design Guidelines, Drawing No. STR-01, for design live load.

**Fire Alarm**

4. Drawing A-1

Note 2.0 Demolition – add the following World Trade Center Standard Note: Preserve existing base building Fire Alarm Equipment before, during and after demolition. No device, appliance, wiring or other BBFAS equipment is to be removed or disabled until such time as replacement equipment is operational. Prior to demolition work the WTC BBFAS maintenance supervisor shall be contacted at 435-5005 for coordination purposes. Only the WTC Maintenance Contractor (Siemens – Cerberus Division/Special Projects) is Authorized to perform work on existing WTC BBFAS system equipment. (BBFAS – Base Building Fire Alarm System)



**Attachment B - List of Comments  
One World Trade Center - 91<sup>st</sup> Floor  
TAA 991199 - Submission Two  
American Bureau of Shipping  
(Continued)**

No WTC BBFAS as review – No BBFAS work shown on drawings.

**GENERAL**

This floor is slated for future PA WTD Phase III Upgrade, design professional to respond if this provision precluded the submission of the WTC BBFAS Design. In any case Minimum Class E Audio EVAC is audibility of Phase II Evacuation signal in all areas for occupancy. Design professional responsible to assure that occupancy conditions are met.



Memorandum

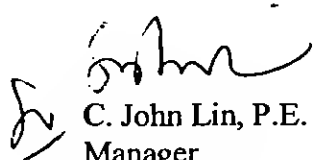
TO: Teresa Koebel, Manager, World Trade Project Management  
FROM: C. John Lin  
DATE: January 7, 2000  
SUBJECT: WTC - ALTERATION APPLICATION W99-1199 - AMERICAN  
BUREAU OF SHIPPING - 1 WTC, 91<sup>st</sup> FLOOR - ADDITION OF NEW  
OFFICES  
REFERENCE: Review Request dated 12/28/99  
COPY TO: A. Fadavi, J. Napolitano, J. Richardson, Chrono Folder, Job Folder

A review of the material submitted with the referenced request has been made.

The previous recommendation that **approval** to proceed with construction be given **subject to...**, remains unchanged pending submission of the items listed below being revised in accordance with the **two (2) requirements** listed on the attached rider.

Drawings: Reports:

- REMARKS: 1) See the attachment for a revised list of drawings recommended for approval.
- 2) This memorandum was transmitted to the Facility via Outlook on January 7, 2000.

  
C. John Lin, P.E.  
Manager  
Quality Assurance Division

I.D.: W99-1199-002  
AF/lm  
att.

Reviewers:  
A. Ferrera, Coordinator and Architectural; T. Santa Maria, Electrical; H. Klimenko, Structural;  
K. [redacted] Fire Protection.



## RIDER

### ALTERATION APPLICATION W99-1199

#### STRUCTURAL

1. Drawing A3.
  - a) Typical Hung Ceiling Details A, B and C. Indicate that the 1/4" dia. ceiling hangers are to be galvanized.
  - b) Ceiling notes. Indicate carrying channels to be 2" instead of 1 1/2" and delete reference to # 9 spring steel wire as metal clip. Show BSA catalog number of the direct hung clip instead.
2. Drawing A5, Furniture Plan. The load of office file-drawers shall be a minimum of 33 psf/tier as per WTC standards. Please revise the calculations.

010700



## ATTACHMENT

### ALTERATION APPLICATION W99-1199

**Subject to compliance** with the requirements listed in this memorandum's rider, the following is a revised list of drawings recommended for approval. All changes from the previous list are shown in boldface:

Dwg Nos.	<u>Dated</u>	<u>Revised</u>
Cover Sht	<del>·11/03/99·</del>	
A0	<del>·11/03/99·</del>	
A1	<del>·11/03/99·</del>	
<b>A2</b>		<b>·12/23/99·</b>
<b>A3</b>		<b>·12/23/99·</b>
A4	<del>·11/03/99·</del>	
<b>A5</b>		<b>·12/23/99·</b>
A6	<del>·11/03/99·</del>	
A7	<del>·11/03/99·</del>	
M-1	<del>·11/04/99·</del>	
M-2	<del>·11/04/99·</del>	
E-1	<del>·11/04/99·</del>	
E-2	<del>·11/04/99·</del>	
<b>E-3</b>		<b>·12/17/99·</b>
E-4	<del>·11/04/99·</del>	
<b>SP-1</b>		<b>·12/17/99</b>

010700

# THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY TENANT ALTERATION APPLICATION REVIEW REQUEST

DISTRIBUTION		
No.	To	Facility
4	QAD	PATC Zip 73
1	D. Warren	PATC Zip 43
1	S.P. Chiao	88 S
1	G. Daly	88 S
1	B. Brown	88 S
1	E. Corneliuz/Nick Strenk - LERA	2 WTC 37 <sup>th</sup> Fl
1*	R. Simonetti	2 WTC
1*	CADD Disk Set	37 <sup>th</sup> Fl
1	F. DeMartini	88 S
1	P. Negron	2 WTC 37 <sup>th</sup> Fl
1	S. Batra	2 WTC 37 <sup>th</sup> Fl
1	C. Semah	2 WTC 35 <sup>th</sup> Fl

Facility WTC Floor 91 TAA No. 991199 Date 12/28/99Application/Tenant AMERICAN BUREAU OF SHIPPINGConsultant Michael G. FARLEY - ARCHEstimated Cost \$50,000. Submittal No. TWO (2)

## Description of Work

Addition of New  
Offices

\* for each submission

Please review the attached  
(revised) application and send  
comments to:Name: Carlo J. SaavedraLocation: 1 WTC, 88S Phone No. 435-2922Fax No.: 435-8168

1/11/00  
Due Date

## DESIGN DISCIPLINES

- ☐ Architectural  
☐ Egress Analysis  
☐ Structural  
☐ HVAC  
☐ Plumbing  
☐ Sprinkler  
☐ Electrical  
☐ Utility > 600 V  
☐ Civil  
☐ Geotechnical  
☐ Environmental  
☐ Fueling  
☐ Radio Freq. Coord.  
☐ Corrosion Protection  
☐ Elevator/Escalator  
☐ Other

## ATTACHMENTS

- ☐ Document List  
☐ Contract Drawings  
☐ Contract Specifications  
☐ Tenant Response  
☐ Computations  
☐ Reports  
☐ Catalog Cuts  
☐ Other

## SPECIAL INSTRUCTIONS

# OFFICE COPY

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ENGINEERING DEPT. QUALITY ASSURANCE DIV.  
DESIGN STANDARDS

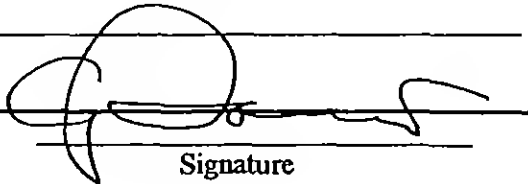
DEC 29 1999  
W99-1199 (2)

RECEIVED  
ALTERATIONS APPLICATION  
TENANT CONSTRUCTION REVIEW UNIT

Copy to: R. Benacchio, T. Koebel, J. Napolitano,  
L. Menno, E. Monteverde, J. Richardson,  
J. Ruiz, N. Seliga, F. Varriano

(Proj. Mgr.)

(Zone Prop. Mgr.)

  
Signature

Michael G. Fahey Architects

December 23, 1999

Mr. Carlos J. Saavedra  
Tenant Alteration Application Unit  
World Trade Department  
1 World Trade Center, 88<sup>th</sup> Floor  
New York, New York 10048

Re: American Bureau of Shipping  
T.A.A. # 991199 – Submission one

We hereby submit the appropriate revisions for your comments. The comments and revisions are resolved as follows:

**Quality Assurance Division**

**Architectural**

- 1.) Drawing A4. Submit test reports for the carpets from an independent testing laboratory in compliance with NYC Building Code section 27-351(d)(2). Please note that the Smoke Developed Rating shall not exceed 300 within the first four minutes of the test as per NYCBC Section 27-351(d)(2)(c).

Carpet test reports submitted herewith.

**Structural**

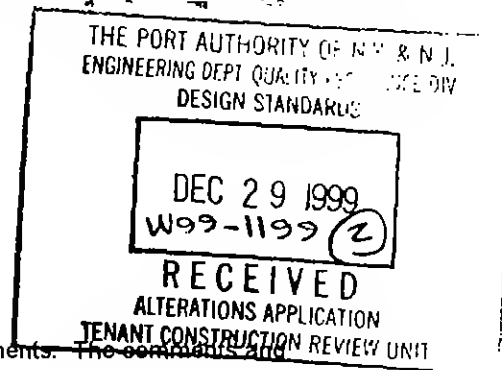
- 2.) Drawing A3, Typical Hung Ceiling Detail 2. The detail shown is applicable to the non-trussed, core areas of WTC. Submit ceiling detail for the trussed area according to PA Tenant Construction is adequate to support the load.

See dwg A3 for above mentioned ceiling detail.

- 3.) Drawing A5, Furniture Plan. The plan shows added file cabinets on the floor. Please indicate size and weight of all the cabinets located throughout the floor and verify that the existing construction is adequate to support the load.

Size and weight of file cabinets are indicated on A-5. As well, load calculations showing compliance w/ Tower design loads on STR-01 are indicated.

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5 Great Jones Street  
Suite 1  
New York, NY 10012  
212 228-0525  
212 228-1820 FAX

## **Michael G. Fahey Architects**

### **WORLD TRADE DEPARTMENT**

#### **Structural**

- 4.) Drawing No. A3, Reflected Ceiling Plan: Please include World Trade Center Standard Details for Light Weight Ceiling Support Systems for floors with Double Trusses, Drawings STR-09 through STR-12 in the contract drawings.

**See dwg A3 for above mentioned ceiling detail.**

- 5.) Drawing No. A5, Furniture Plan:

- a.) Please indicate the size and number of tiers for files, and the height for shelves on the plan

**Size and weight of file cabinets are indicated on A-5. As well, load calculations showing compliance w/ Tower design loads on STR-01 are indicated.**

- b.) Please provide structural calculations demonstrating that the design live load is not exceeded or the load from the high-density files, other concentrations of files, and shelves used for libraries or paper storage. In the calculations for the southwest corner, consider the loading in the entire two-way corner zone including adjacent offices. See World Trade Center Structural Design Guidelines, Drawings No. STR-01, for design live loads.

**Size and weight of file cabinets are indicated on A-5. As well, load calculations showing compliance w/ Tower design loads on STR-01 are indicated.**

#### **Electrical**

- 6.) Drawing E-2 North electric closet has been modified. Show the correct layout.

**See Engineering comments submitted by John Westrick & Associates**

- 7.) Drawing E-3 Where is panel RP91NA? I would assume you mean RP-91NJ

**See Engineering comments submitted by John Westrick & Associates**

**Michael G. Fahey Architects**

- 8.) Drawing E-3 Show closet metering arrangement unless tenant are not metered.

**See Engineering comments submitted by John Westrick & Associates**

**Architectural**

- 9.) Drawing A-2 Label existing egress stair by letter for reference purposes.

**Existing egress stair has been labeled (A) for reference purposes. See dwg A2.**

- 10.) Drawing A-2 Add the number of feet in distance on the two last legs of the path of travel diagram.

**The number of feet in distance on the last legs of the path of travel diagram has been added to dwg A2.**

- 11.) Drawing A-5 Recommendation: As per the ADA regulations there is supposed to be 18" clearance on the latch side of the floor. Review your plans for compliance ie, Corridor 9125, RM 9123, 9102 etc.

**Above mentioned recommendation has been taken into consideration. Existing doors do comply with ADA regulations verified in recent field survey. See dwg A5**

**Fire Protection**

- 12.) Specification 2, upright heads don't apply to finished ceiling. Please add the following specification

**In all finish area, sprinkler heads shall be Reliable Automatic Sprinkler Co., Model G4 "Concealer," BS&A 587-75-SA, with a 165 degree temperature rating. The cover plate of heads must be chrome plated, not factory painted white. For 1, 2, and 5 World Trade Center, office size shall be 1/2", in 4 World Trade Center office size shall be 7/16".**

**See Engineering comments submitted by John Westrick & Associates**

# JOHN C. WESTRICK & ASSOCIATES

CONSULTING ENGINEERS

Project # 99101

2110 Maple Avenue  
South Plainfield, New Jersey 07080

(908) 561-4170  
FAX(908) 561-9399

December 17, 1999

**Port Authority of New York & New Jersey**  
One World Trade Center-Floor 36 South  
New York, N.Y. 10048

Att: Mr. Saavedra  
Ref: Flowers of the World  
T.A.A. # 991199

Dear Mr. Saavedra

I hereby resubmit the drawings for the above referenced application after having made appropriate revisions for your comments. The comments are resolved as follows:

## ELECTRICAL

6. Drawing E-2; The North electric closet has not been modified on this floor the correct layout is shown.
7. Drawing E-3; There is no panel RP91NA an error was made in indicating the homeruns for the existing AC units, they have now been corrected to indicate panel LP91NA.
8. Drawing E-3; A one line diagram has been added to the plan to show metering.

## FIRE PROTECTION

12. Specification #2 has now been revised as per your request.

If you have any further questions or comments please contact me as soon as possible.  
Thank you for your cooperation in this matter.

Very truly yours,

John C. Westrick

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DEC 29 1999  
W99-1199 (2)

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ALTERATIONS APP  
TENANT CONSTRUCTION



Professional  
Testing  
Laboratory  
Inc.

# TEST REPORT

TEST NUMBER	0047611
DATE	06/12/97
PAGE	2 of 2

CLIENT	NETWORK/DIV. OF SHAW IND.
--------	---------------------------

TEST METHOD CONDUCTED	ASTM E662-93 Specific Optical Density of Smoke Generated by Solid Materials, also referenced as NFPA 258
-----------------------	--

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	59084 Change Square
COLOR	84110
ROLL	191293-6
CONSTRUCTION	Multi-Level Loop Pile
FIBER	—
BACKING	ErgoFlex
REFERENCE	Test No: 052297-7

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ENGINEERING DEPT. QUALITY ASSURANCE DIV.  
DESIGN STANDARDS

DEC 29 1999  
W 99-1199 (2)  
RECEIVED

PRE DRYING OF TEST SAMPLE	CONDITIONS
CONDITIONING OF TEST SAMPLE	24 Hours at 140 degrees F 24 Hours at 70 degrees F and 50% relative humidity

FURNACE VOLTAGE	113.5 V	IRRADIANCE	2.5 Watts/sq cm
CHAMBER TEMPERATURE	95 degrees F	CHAMBER PRESSURE	3" H2O
TEST MODE	Flaming		

AVERAGE MAXIMUM DENSITY CORRECTED (DMC)	120
---	-----

	1	2	3
Maximum Density (Dm)	151	134	144
Time to Dm (minutes)	11	10.2	10.6
Clear Beam (Dc)	24	22	22
Corr. Max Density (DMC)	127	112	122
Density at 1.5 minutes	13	13	17
Density at 4.0 minutes	117	105	117
Time to 90% Dm (minutes)	8.9	7.9	8.3
Specimen Weight (grams)	20.8	21.1	21.6

AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES: 115

APPROVED BY:

*Doug Phillips*

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NVLA



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Testing  
Laboratory  
Inc.

## TEST REPORT

TEST NUMBER	0051633
DATE	02/03/98

CLIENT	SHAW COMMERCIAL
--------	-----------------

TEST METHOD CONDUCTED	Surface Flammability of Carpets and Rugs (CPSC FF 1-70)
-----------------------	---

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	50652 Alberti
COLOR	—
ROLL	E50524-7
CONSTRUCTION	Multi-Level Loop Pile
FIBER	—
BACKING	Action Bac
REFERENCE	Test No: 012298-13

### GENERAL PRINCIPLE

This test method is intended to measure the response of finished textile floor covering materials when exposed to an ignition source under controlled laboratory conditions. It is applicable to all types of textile floor coverings whether constructed from natural or man-made materials.

### TEST CRITERION

The uncharred area of the test specimen must be greater than one inch in at least seven of the eight specimens tested in order to meet the acceptance criterion.

### TEST RESULTS

SPECIMEN NUMBER							
	1	2	3	4	5	6	7
Uncharred Area (inches)	3.6	3.6	3.5	3.5	3.6	3.5	3.6

**NOTE:** This sample was tested on the face side.

This sample PASSES the Federal Flammability Standard DOC FF 1-70.

APPROVED BY:

*Brian Phillip*

This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 100267. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products. This report, or the name of Professional Testing Laboratory, Inc., shall not be used under any circumstance in advertising to the general public.

714 Glenwood Place

Dalton, GA 30721

706-226-3283



TEST NUMBER	0051633
DATE	02/03/98
PAGE	1 of 2

CLIENT	SHAW COMMERCIAL
--------	-----------------

TEST METHOD CONDUCTED	ASTM E648-94a Critical Radiant Flux of Floor Covering Systems Using A Radiant Heat Energy Source, also referenced as NFPA 253 and FTM Standard 372
-----------------------	--

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	50652 Alberti
COLOR	—
ROLL	E50S24-7
CONSTRUCTION	Multi-Level Loop Pile
FIBER	—
BACKING	Action Bac
REFERENCE	Test No: 012298-13

"This test report relates to installation in accordance with the criteria set forth in the report. Any variation in the criteria may produce different results."

### TEST RESULTS

AVERAGE CRITICAL RADIANT FLUX	1.05 watts/square cm
-------------------------------	----------------------

### GENERAL PRINCIPLE

This procedure is designed to measure the critical radiant flux at flame out, of horizontally mounted floor covering systems exposed to a flaming ignition in a test chamber which provides a graded radiant heat energy environment. The imposed radiant flux simulates the thermal radiation levels likely to impinge on the floors of a building whose upper surfaces are heated by flames of compartment. The test result is an average critical radiant flux (watts/square cm) which indicates the level of radiant heat energy required to sustain flame propagation in the flooring system. Theoretically, if a room fire does not impose a radiant flux that exceeds this critical level on a corridor floor covering system, flame spread will not occur.

This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 7402197. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products. This report, or the name of Professional Testing Laboratory, Inc., shall not be used under any circumstances in advertising to the general public.





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Inc.

## TEST REPORT

TEST NUMBER	0051633
DATE	02/03/98
PAGE	2 of 2

CLIENT	SHAW COMMERCIAL
--------	-----------------

TEST METHOD CONDUCTED	ASTM E648-94a Critical Radiant Flux of Floor Covering Systems Using A Radiant Heat Energy Source, also referenced as NFPA 253 and FTM Standard 372
-----------------------	--

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	50652 Albertl
COLOR	---
ROLL	E50524-7
CONSTRUCTION	Multi-Level Loop Plie
FIBER	---
BACKING	Action Bac
REFERENCE	Test No: 012298-13
"This test report relates to installation in accordance with the criteria set forth in the report. Any variation in the criteria may produce different results."	

FLOORING SYSTEM ASSEMBLY	
SUBSTRATE UNDERLAYMENT ADHESIVE	Mineral-Fiber/Cement Board Direct Glue Down Subset 1000
CONDITIONING	Each test sample was conditioned a minimum of 96 hours at 70 ± 5° F and 50 ± 5% relative humidity.

### TEST RESULTS

TEST DATA	DISTANCE BURNED	TIME TO FLAME OUT	CRITICAL RADIANT FLUX
SPECIMEN 1	16 cm	19 minutes	1.00 watt/sq cm
SPECIMEN 2	10 cm	10 minutes	1.11 watt/sq cm
SPECIMEN 3	14 cm	9 minutes	1.04 watt/sq cm

AVERAGE CRITICAL RADIANT FLUX	1.05 watts/square cm
STANDARD DEVIATION	.06 watts/square cm
COEFFICIENT OF VARIATION	5%

APPROVED BY:

*Bruce Phillips*

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714 Glenwood Place

Dalton, GA 30721

706-226-3283

Fax: 706-226-6787





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## TEST REPORT

TEST NUMBER	0051633
DATE	02/03/98
PAGE	1 of 2

CLIENT	SHAW COMMERCIAL
--------	-----------------

TEST METHOD CONDUCTED	ASTM E662-93 Specific Optical Density of Smoke Generated by Solid Materials, also referenced as NFPA 258
-----------------------	--

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	50652 Alberti
COLOR	—
ROEL	E50524-7
CONSTRUCTION	Multi-Level Loop Plie
FIBER	—
BACKING	Action Bac
REFERENCE	Test No: 012298-13

### TEST RESULTS

FLAMING	143
---------	-----

### GENERAL PRINCIPLE

This procedure is designed to measure the specific optical density of smoke generated by the test specimen within a closed chamber. Each specimen is exposed to an electrically heated radiant-energy source positioned to provide a constant irradiance level of 2.5 watts/square cm on the specimen surface. Measurements are recorded through a photometric system employing a vertical beam of light and a photo detector positioned to detect the attenuation of light transmittance caused by smoke accumulation within the chamber. The light transmittance measurements are used to calculate specific optical density, a quantitative value which can be factored to estimate the smoke potential of materials. Two burning conditions can be simulated by the test apparatus. The radiant heating in the absence of ignition is referred to as the Non-Flaming Mode. A flaming combustion in the presence of supporting radiation constitutes the Flaming Mode.

This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 190297. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products. This report, or the name of Professional Testing Laboratory, Inc., shall not be used under any circumstance in advertising to the general public.

714 Glenwood Place

Dalton, GA 30721

706-226-3283

Fax: 706-226-6787





**Professional  
Testing  
Laboratory  
Inc.**

# TEST REPORT

TEST NUMBER	0051633
DATE	02/03/98
PAGE	2 of 2

CLIENT	SHAW COMMERCIAL
--------	-----------------

TEST METHOD CONDUCTED	ASTM E662-93 specific Optical Density of Smoke Generated by Solid Materials, also referenced as NFPA 258
-----------------------	--

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	S0652 Alberti
COLOR	—
ROLL	E50524-7
CONSTRUCTION	Multi-Level Loop Pile
FIBER	—
BACKING	Action Bac
REFERENCE	Test No: 012298-13

CONDITIONS	
PREPARING OF TEST SAMPLE	24 Hours at 140 degrees F
CONDITIONING OF TEST SAMPLE	24 Hours at 70 degrees F and 50% relative humidity

FURNACE VOLTAGE	115 V	IRRADIANCE	2.5 watts/sq cm
CHAMBER TEMPERATURE	95 degrees F	CHAMBER PRESSURE	3" H2O
TEST MODE	Flaming		

AVERAGE MAXIMUM DENSITY CORRECTED (DMC)	145
---	-----

	1	2	3
Maximum Density (Dm)	153	186	145
Time to Dm (minutes)	4.4	3.0	5.6
Clear Beam (Dc)	19	20	16
Corr. Max Density (Dmc)	134	166	129
Density at 1.5 minutes	20	57	46
Density at 4.0 minutes	152	177	132
Time to 90% Dm (minutes)	2.5	2.4	3.9
Specimen Weight (grams)	12.6	12.7	12.5

AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES	154
---	-----

APPROVED BY: Bruce Phillips

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**Professional  
Testing  
Laboratory  
Inc.**

## TEST REPORT

<b>TEST NUMBER</b>	0047611
<b>DATE</b>	06/12/97
<b>PAGE</b>	1 of 2

<b>CLIENT</b>	NETWORK/DIV. OF SHAW IND.
---------------	---------------------------

<b>TEST METHOD CONDUCTED</b>	ASTM E662-93 Specific Optical Density of Smoke Generated by Solid Materials, also referenced as NFPA 258
------------------------------	--

DESCRIPTION OF TEST SAMPLE	
<b>IDENTIFICATION</b>	59084 Change Square
<b>COLOR</b>	84110
<b>ROLL</b>	191293-6
<b>CONSTRUCTION</b>	Multi-Level Loop Pile
<b>FIRER</b>	—
<b>BACKING</b>	ErgoFlex
<b>REFERENCE</b>	Test No: 052297-7

### TEST RESULTS

<b>FLAMING</b>	120
----------------	-----

### GENERAL PRINCIPLE

This procedure is designed to measure the specific optical density of smoke generated by the test specimen within a closed chamber. Each specimen is exposed to an electrically heated radiant-energy source positioned to provide a constant irradiance level of 2.5 watts/square cm on the specimen surface. Measurements are recorded through a photometric system employing a vertical beam of light and a photo detector positioned to detect the attenuation of light transmittance caused by smoke accumulation within the chamber. The light transmittance measurements are used to calculate specific optical density, a quantitative value which can be factored to estimate the smoke potential of materials. Two burning conditions can be simulated by the test apparatus. The radiant heating in the absence of ignition is referred to as the Non-Flaming Mode. A flaming combustion in the presence of supporting radiation constitutes the Flaming Mode.

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Inc.

## TEST REPORT

TEST NUMBER	0047611
DATE	06/12/97
PAGE	2 of 2

CLIENT	NETWORK/DIV. OF SHAW IND.
--------	---------------------------

TEST METHOD CONDUCTED	ASTM E648-94a Critical Radiant Flux of Floor Covering Systems Using A Radiant Heat Energy Source, also referenced as NFPA 253 and FTM Standard 372
-----------------------	--


DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	59084 Change Square
COLOR	84110
ROLL	191293-6
CONSTRUCTION	Multi-Level Loop Pile
FIBER	---
BACKING	ErgoFlex
REFERENCE	Test No. 052297-7  "This test report relates to installation in accordance with the criteria set forth in the report. Any variation in the criteria may produce different results."

FLOORING SYSTEM ASSEMBLY	
SUBSTRATE UNDERLAYMENT ADHESIVE	Mineral-Fiber/Cement Board Direct Glue Down Subset 1000
CONDITIONING	Each test sample was conditioned a minimum of 96 hours at 70 ± 5° F and 50 ± 5% relative humidity.

### TEST RESULTS

TEST DATA	DISTANCE BURNED	TIME TO FLAME OUT	CRITICAL RADIANT FLUX
SPECIMEN 1	41 cm	32 minutes	.49 watts/sq cm
SPECIMEN 2	41 cm	32 minutes	.49 watts/sq cm
SPECIMEN 3	38 cm	30 minutes	.53 watts/sq cm

AVERAGE CRITICAL RADIANT FLUX	.50 watts/square cm
STANDARD DEVIATION	.02 watts/square cm
COEFFICIENT OF VARIATION	5%

APPROVED BY: 

This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 100297. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the products tested. This report is provided for the exclusive use of the firm to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products. This report, or the name of Professional Testing Laboratory, Inc., shall not be used under any circumstances in advertising to the general public.



**Professional  
Testing  
Laboratory  
Inc.**

## TEST REPORT

TEST NUMBER	0047611
DATE	06/12/97
PAGE	1 of 2

CLIENT	NETWORK/DIV. OF SHAW IND.
TEST METHOD CONDUCTED	ASTM E648-94a Critical Radiant Flux of Floor Covering Systems Using A Radiant Heat Energy Source, also referenced as NFPA 253 and FTM Standard 372

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	59084 Change Square
COLOR	84110
ROLL	191293-6
CONSTRUCTION	Multi-Level Loop Pile
FIBER	—
BACKING	ErgoFlex
REFERENCE	Test No: 052297-7

"This test report relates to installation in accordance with the criteria set forth in the report. Any variation in the criteria may produce different results."

### TEST RESULTS

AVERAGE CRITICAL RADIANT FLUX	50 watts/square cm
-------------------------------	--------------------

### GENERAL PRINCIPLE

This procedure is designed to measure the critical radiant flux at flame out, of horizontally mounted floor covering systems exposed to a flaming ignition in a test chamber which provides a graded radiant heat energy environment. The imposed radiant flux simulates the thermal radiation levels likely to impinge on the floors of a building whose upper surfaces are heated by flames of compartment. The test result is an average critical radiant flux (watt/square cm) which indicates the level of radiant heat energy required to sustain flame propagation in the flooring system. Theoretically, if a room fire does not impose a radiant flux that exceeds this critical level on a corridor floor covering system, flame spread will not occur.

This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 100297. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of equally identical or similar products. This report, or the name of Professional Testing Laboratory, Inc., shall not be used under any circumstance in advertising to the general public.



**Professional  
Testing  
Laboratory  
Inc.**

**TEST REPORT**

<b>TEST NUMBER</b>	0047611
<b>DATE</b>	06/12/97

<b>CLIENT</b>	NETWORK/DIV. OF SHAW IND.
---------------	---------------------------

<b>TEST METHOD CONDUCTED</b>	Surface Flammability of Carpets and Rugs (CPSC FF 1-70)
------------------------------	---

DESCRIPTION OF TEST SAMPLE	
<b>IDENTIFICATION</b>	59084 Change Square
<b>COLOR</b>	84110
<b>ROLL</b>	191293-6
<b>CONSTRUCTION</b>	Multi-Level Loop Pile
<b>FIBER</b>	—
<b>BACKING</b>	ErgoFlex
<b>REFERENCE</b>	Test No: 052297-7

**GENERAL PRINCIPLE**

This test method is intended to measure the response of finished textile floor covering materials when exposed to an ignition source under controlled laboratory conditions. It is applicable to all types of textile floor coverings whether constructed from natural or man-made materials.

**TEST CRITERION**

The uncharred area of the test specimen must be greater than one inch in at least seven of the eight specimens tested in order to meet the acceptance criterion.

**TEST RESULTS**

SPECIMEN NUMBER								
	1	2	3	4	5	6	7	8
Uncharred Area (inches)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6

**NOTE:** This sample was tested on the face side.

This sample **PASSES** the Federal Flammability Standard DOC FF 1-70.

**APPROVED BY:** 

This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 100297. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products. This report, or the name of Professional Testing Laboratory, Inc., shall not be used under any circumstance in advertising to the general public.







December 7, 1999

Rec.  
12/13/99

Donald Bimey, V.P.  
American Bureau of Shipping  
Two World Trade Center - 106<sup>th</sup> Floor  
New York, NY 10048

Re: American Bureau of Shipping - One World Trade Center - 91<sup>st</sup> Floor  
TAA - 991199 - Submission One - Conditional Approval

Dear Mr. Bimey:

This letter responds to your submission dated November 10, 1999, requesting a review of the documents listed on Attachment A to this letter. Tenant Alteration Application 991199 has been approved subject to compliance with the comments listed in Attachment B to this letter. We strongly recommend that these comments be transmitted to your contractor.

Incorporate the requirements of the comments into the construction documents, and respond to each of the comments in writing, and submit twelve (12) sets of the revised drawings by December 13, 1999. The revised documents shall be signed and sealed by the Engineer or Architect of record who is licensed to practice in the State of New York. Indicate the latest revision number on each drawing in the title box, circle each revision and place the latest revision number inside a triangle. Your cooperation in meeting the submission date for comment resolution will assist in meeting your client's schedule for occupancy.

The certifying Licensed Professional or Contractor referred to in Rider C shall contact Mr. Frank DeMartini in writing, at One World Trade Center, 88E, New York, N.Y. 10048, 72 hours prior to start of construction, to schedule a preconstruction meeting. Work scheduling and compliance with Port Authority requirements pertaining to construction work to be performed on the premises will be discussed at the meeting. Mr. DeMartini's telephone number is (212) 435-3212; fax number is (212) 435-2408.

Any changes to the already approved scope of work must be submitted to The Port Authority of New York and New Jersey for review and approval prior to the commencement of associated work. Only contract documents reviewed and approved by this office are to be released in the field for construction.

All correspondence or inquiries should be directed to Carlo J. Saavedra, Project Manager, at The Port Authority of New York and New Jersey, One World Trade Center, 88<sup>th</sup> Floor South, New York, N.Y. 10048. Telephone (212) 435-2922, fax (212) 435-8168.

Sincerely,

Joseph P. Napolitano  
Program Manager, Design Build  
Supervisor, Tenant Alteration Applications  
Tenant Project Management  
The World Trade Department

/cnb

bcc: S. Bhola, R. Benacchio, J. Castaldo, A. Fadavi, T. Koebel, E. Moscovitz, S. Murrey, J. Napolitano, J. Picone, J. Ruiz, C.J. Saavedra, N. Seliga, Central File, Chrono File

Attachment A - List Of Drawings  
One World Trade Center – 91<sup>st</sup> Floor  
TAA 991199 – Submission Three  
American Bureau Of Shipping

<u>Drawing</u>	<u>Title</u>	<u>Date</u>
A0	General Notes, Abbreviations, Legend, List Of Drawings, Key Plan	11/03/99
A1	Demolition Plan	11/03/99
A2	Construction / Egress Plan	11/03/99
A3	Reflected Ceiling Plan	11/03/99
A4	Finish Plan	11/03/99
A5	Furniture Plan	11/03/99
A6	Details	11/03/99
A7	Specifications	11/03/99
M1	Mechanical Specifications	11/04/99
M2	Mechanical Plan	11/04/99
SP1	Sprinkler Plan	11/04/99
E1	Electrical Specifications	11/04/99
E2	Electrical Lighting Plan	11/04/99
E3	Electrical Power Plan	11/04/99
E4	Electrical Power Demolition Plan	11/04/99

**Attachment B – List of Comments  
One World Trade Center – 91<sup>st</sup> Floor  
TAA – 991199 – Submission One  
American Bureau of Shipping**

**QUALITY ASSURANCE DEPARTMENT**

**ARCHITECTURAL**

1. Drawing A4. Submit test reports for the carpets from an independent testing laboratory in compliance with NYC Building Code Section 27-351(d)(2). Please note that the Smoke Developed Rating shall not exceed 300 within the first four minutes of the test as per NYCBC Section 27-351(d)(2)(c).

**STRUCTURAL**

2. Drawing A3, Typical Hung Ceiling Detail 2. The detail shown is applicable to the non-trussed, core areas of WTC. Submit ceiling detail for the trussed area according to PA Tenant Construction Review Manual, Attachment S2.
3. Drawing A5, Furniture Plan. The plan shows added file cabinets on the floor. Please indicate size and weight of all the cabinets located throughout the floor and verify that the existing construction is adequate to support the load.

**WORLD TRADE DEPARTMENT**

**STRUCTURAL**

- 4 Drawing No. A3, Reflected Ceiling Plan: Please include World Trade Center Standard Details for Light Weight Ceiling Support Systems for Floors with Double Trusses, Drawings STR-09 through STR-12 in the contract drawings.
5. Drawing No. A5, Furniture Plan:
  - a) Please indicate the size and number of tiers for files, and the height for shelves on the plan.
  - b) Please provide structural calculations demonstrating that the design live load is not exceeded or that the floor system is not overstressed due to the load from the high-density files, other concentrations of files, and shelves used for libraries or paper storage. In the calculations for the southwest corner, consider the loading in the entire two-way corner zone including adjacent offices. See World Trade Center Structural Design Guidelines, Drawing No. STR-01, for design live loads.

**Attachment B – List of Comments  
One World Trade Center – 91<sup>st</sup> Floor  
TAA – 991199 – Submission One  
American Bureau of Shipping**

**ELECTRICAL**

6. Drawing E-2 North electric closet has been modified. Show the correct layout.
7. Drawing E-3 Where is panel RP91NA? I would assume you mean RP-91NJ.
8. Drawing E-3 Show closet metering arrangement unless tenant are not metered.

**ARCHITECTURAL**

9. Drawing A-2 Label the existing egress stair by letter for reference purposes.
10. Drawing A-2 Add the number of feet in distance on the two last legs of the path of travel diagram.
11. Drawing A-5 Recommendation: As per the ADA regulations there is supposed to be 18" clearance on the latch side of the door. Review your plans for compliance i.e., Coridor 9125, RM 9123, 9102 etc.

**FIRE PROTECTION**

12. Specification 2, upright heads don't apply to finished ceiling. Please add the following specification.

In all finish area, sprinkler heads shall be Reliable Automatic Sprinkler Co., Model G4 "Concealer," BS&A 587-75-SA, with a 165-degree temperature rating. The cover plate of heads must be chrome plated, not factory painted white. For 1, 2, and 5 World Trade Center, orifice size shall be 1/2", in 4 World Trade Center orifice size shall be 7/16".

End of comments  
120699



Memorandum

**TO:** Teresa Koebel, Manager, World Trade Project Management  
**FROM:** C. John Lin  
**DATE:** November 29, 1999  
**SUBJECT:** WTC - ALTERATION APPLICATION W-991199 - AMERICAN BUREAU OF SHIPPING - 1 WTC, 91ST FLOOR - ADDITION OF NEW OFFICES  
**REFERENCE:** Review Request dated 11/10/99  
**COPY TO:** A. Fadavi, J. Napolitano, J. Richardson, Chrono Folder, Job Folder

A review of the material submitted with the referenced request has been made.

It is recommended that **approval** to proceed with construction be given **subject to** the submission of the items listed below being revised in accordance with the **three (3) requirements** listed on the attached rider.

Drawings:

- REMARKS: 1) See the attachment for a list of drawings recommended for approval.
- 2) This memorandum was transmitted to the Facility via Outlook on November 29, 1999.

*for Mitchell Allen*  
C. John Lin, P.E.  
Manager  
Quality Assurance Division

I.D.: W99-1199-001  
AR/lm  
att.

Reviewers:

A. Rohssler, Coordinator; A. Ferrera, Structural; H. Klimenko, Structural; K. Narsule, Mechanical and Plumbing; T. Santa Maria, Electrical.

## **RIDER**

### **ALTERATION APPLICATION W-991199**

#### **ARCHITECTURAL**

1. Drawing A4. Submit test reports for the carpets from an independent testing laboratory in compliance with NYC Building Code Section 27-351(d)(2). Please note that the Smoke Developed Rating shall not exceed 300 within the first four minutes of the test as per NYCBC Section 27-351(d)(2)(c).

#### **STRUCTURAL**

2. Drawing A3, Typical Hung Ceiling Detail 2. The detail shown is applicable to the non-trussed, core areas of WTC. Submit ceiling detail for the trussed area according to PA Tenant Construction Review Manual, Attachment S2.
3. Drawing A5, Furniture Plan. The plan shows added file cabinets on the floor. Please indicate size and weight of all the cabinets located throughout the floor and verify that the existing construction is adequate to support the load.

112999

## ATTACHMENT

### ALTERATION APPLICATION W-991199

**Subject to compliance** with the requirements listed in this memorandum's rider, the following drawings are recommended for approval:

<u>DRAWINGS</u>	<u>DATED</u>
Cover Sheet	11/03/99
A0	11/03/99
A1	11/03/99
A2	11/03/99
A3	11/03/99
A4	11/03/99
A5	11/03/99
A6	11/03/99
A7	11/03/99
M-1	11/04/99
M-2	11/04/99
E-1	11/04/99
E-2	11/04/99
E-3	11/04/99
E-4	11/04/99

112999

**Structural**

**W99-1199-001**

\_\_\_ Drawing A3, Typical Hung Ceiling Detail 2. The detail shown is applicable to the non-trussed, core areas of WTC. Submit ceiling detail for the trussed area according to TCRM, Attachment S2

\_\_\_ Drawing A5, Furniture Plan. The plan shows added file cabinets on the floor. Please indicate size and weight of all the cabinets located throughout the floor and verify that the existing construction is adequate to support the load.



RIDER

ALTERATION APPLICATION W99-1199

ELECTRICAL

- I. Drawing E-3. Branch circuit homeruns to Panels CP and RP91N are shown. Please provide information as to the rating of the overcurrent protection for each branch circuits. It may be convenient to show the information in tabular form (e.g., a panel schedule, etc.) for each branch circuit. See NYC Electrical Code Sections 27-3167 and 27-3169.

I dropped the  
comment as  
minor.

Alvin L. Rhee  
11/24/99

RIDER

**ALTERATION APPLICATION W991199**

**ARCHITECTURAL**

1. Drawing A4. Submit test reports for the Carpets from an independent testing Laboratory in compliance with NYC Building Code Section 27-351(d)(2). Please note that the Smoke Developed Rating shall not exceed 300 within the first four minutes of the test as per NYCBC Section 27-351(d)(2)©.

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY  
TENANT ALTERATION APPLICATION REVIEW REQUEST

Revised 11/99

11/30

DISTRIBUTION		
No.	To	Facility
4	QAD	PATC Zip 73
1	D. Warren	PATC Zip 43
1	S.P. Chiao	88 S
1	G. Daly	88 S
1	B. Brown	88 S
1	E. Corneliuz/Nick Strenk - LERA	2 WTC 37 <sup>th</sup> Fl
1*	R. Simonetti	2 WTC
1*	CADD Disk Set	37 <sup>th</sup> Fl
1	F. DeMartini	88 S
1	P. Negron	2 WTC 37 <sup>th</sup> Fl
1	S. Batra	2 WTC 37 <sup>th</sup> Fl
1	C. Semah	2 WTC 35 <sup>th</sup> Fl

Facility WTC Floor 91 TAA No. 991199 Date 11/10/99  
Application/Tenant (AB3) AMERICAN Bureau of Hygiene

Consultant Michael H. Farley Arch.

Estimated Cost \$50,000 Submittal No. One (1)

Description of Work

Addition of New Offices

\* for each submission

Please review the attached  
(revised) application and send  
comments to:

Name: Carlo J. Saavedra

Location: 1 WTC, 88S Phone No. 435-2922

Fax No.: 435-8168

11/24/99  
Due Date

DESIGN DISCIPLINES

- ☐ Architectural
- ☐ Egress Analysis
- ☐ Structural
- ☐ HVAC
- ☐ Plumbing
- ☐ Sprinkler
- ☐ Electrical
- ☐ Utility > 600 V
- ☐ Civil
- ☐ Geotechnical
- ☐ Environmental
- ☐ Fueling
- ☐ Radio Freq. Coord.
- ☐ Corrosion Protection
- ☐ Elevator/Escalator
- ☐ Other

ATTACHMENTS

- ☐ Document List
- ☐ Contract Drawings
- ☐ Contract Specifications
- ☐ Tenant Response
- ☐ Computations
- ☐ Reports
- ☐ Catalog Cuts
- ☐ Other

SPECIAL INSTRUCTIONS

DESCRIPTION

OFFICE COPY

THE PORT AUTHORITY OF N.Y. & N.J. ENGINEERING DEPT. QUALITY ASSURANCE DIV. DESIGN STANDARDS
NOV 15 1999 W99-1199 RECEIVED
ALTERATIONS APPLICATION TENANT CONSTRUCTION REVIEW UNIT

Copy to: R. Benacchio, T. Koebel, J. Napolitano,  
L. Menno, E. Monteverde, J. Richardson,  
J. Ruiz, N. Seliga, F. Varriano

(Proj. Mgr.)

(Zone Prop. Mgr.)

Signature

Attachment A - List Of Drawings  
One World Trade Center - 91<sup>st</sup> Floor  
TAA 991199 - Submission One  
American Bureau Of Shipping

<u>Drawing</u>	<u>Title</u>	<u>Date</u>
A0	General Notes, Abbreviations, Legend, List Of Drawings, Key Plan	11/03/99
A1	Demolition Plan	11/03/99
A2	Construction / Egress Plan	11/03/99
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**OFFICE COPY**

THE PORT AUTHORITY OF N.Y. & N.J. ENGINEERING DEPT. QUALITY ASSURANCE DIV DESIGN STANDARDS
NOV 15 1999 W99-1199
RECEIVED
ALTERATIONS APPLICATION TENANT CONSTRUCTION REVIEW UNIT

**THE PORT AUTHORITY OF N.Y. & N.J.**  
One World Trade Center, New York, N.Y. 10048

For Port Authority use only	
FACILITY	WTC 91
DATE	11/10/99
APP. NO.	991191
APPLICANT'S NAME	
AFC	

**TENANT CONSTRUCTION OR ALTERATION APPLICATION**

**APPLICANT MUST READ THE TERMS AND CONDITIONS PRINTED ON THE REVERSE HEREOF**

The Applicant shall not commence performance of any of the said work prior to the receipt by Applicant of a copy of this application duly signed in Part Two hereof on behalf of The Port Authority of New York and New Jersey. Upon receipt thereof, the Applicant agrees to perform said work in accordance with the following "Information to be Furnished by Applicant" and to comply with and be bound by all requirements and conditions set forth below under the remarks, if any, in Part Two hereof and the terms and conditions set forth on the reverse hereof.

**PART ONE: Information to be furnished by Applicant (Refer to your lease or permit for required information)**

Permission is hereby requested to perform the following described work on the space occupied by the Applicant

AT (FACILITY)	WTC	PURSUANT TO (LEASE, SPACE PERMIT) NUMBER	LOCATION (BUILDING NUMBER OR AREA) OF SPACE TO BE ALTERED
			WTC Tower 1 Suite # 9165

**DESCRIPTION OF WORK AND REASON**

Addition of new offices, Relocation of sprinkler heads, New Ceiling where affected by construction, New carpet through out and paint

ESTIMATED COST OF WORK	\$ 50,000.00	ESTIMATED TIME TO COMPLETE (DAYS)	21 days	STARTING DATE	11/26/99	COMPLETION DATE	12/17/99
------------------------	--------------	-----------------------------------	---------	---------------	----------	-----------------	----------

Plans: Prints of each drawing must be submitted with copies of application. Include floor plan and show area affected by proposed work (size 8 1/2" x 11" or larger).

TITLE OF DRAWING	DRAWING NUMBER	DATED
A0-Gen'l notes, A1-demolition Plans, a2- Const. Plan, A3- Ref. Clg. plan, A4- Finish Plan, A5- Furniture Plan, A6- Details, A7- Specs., M1- Mech. Specs., M2- Mech Plan. E1- Elect. spec. SP1- Sprinkler Plan., E2-Lighting Plan, E3- Power plan, E-4 Pwer demo.		11/3/99

NAME & ADDRESS OF CONTRACTOR (IF NOT KNOWN, SUBMIT LATER)	NAME AND ADDRESS OF ENGINEER OR ARCHITECT	TELEPHONE NUMBER
Nelson Construction Inc 594 Industrial Ave. Paramus, NJ 07087	Michael G. Fahey Architects 5 Great Jones St. Ste. # 1 New York, NY 10012	212-228-0521 LICENSE NUMBER 019509

SEND CORRESPONDENCE TO:  
NAME AND ADDRESS OF EMPLOYEE IN CHARGE OF WORK

Mr. Donald Birney, V.P.  
American Bureau of Shipping  
2 World Trade Center, 106th Fl.  
NY, NY 10048

TELEPHONE NUMBER  
212-839-5155

**ENGINEER OR ARCHITECT CERTIFICATION**

I have supervised the preparation of plans and specifications for the entire work represented herein and hereby certify that they conform to the requirements of the respective enactments, ordinances, resolutions and regulations of the City, town or municipality in regard to construction and maintenance of buildings and structures and in regard to health and safety provisions which would be applicable if the Port Authority were a private corporation.

APPLICANT'S NAME (AS IT APPEARS ON LEASE OR PERMIT)

American Bureau of Shipping

BY (SIGNATURE OF AUTHORIZED REP.)

Donald K. Birney

TITLE

V.P.

DATE

11/15/99

SIGNATURE OF LICENSED PROFESSIONAL ENGINEER OR ARCHITECT

DATE

11/15/99

The Contractor by signing below agrees to all the terms and conditions on this application and printed on the reverse side thereof, including \$5 indemnifying the Port Authority, and further agrees to be bound by all riders and schedules attached to this application.

☐ The Applicant must check here if the Professional Certification Program is elected for tenant construction or alteration at the World Trade Center.

Signature: *E. J. [Signature]* 11.05.99  
(Contractor) Date

Signature: \_\_\_\_\_  
(Applicant Officer/Partner) Date

Address: 594 Industrial Ave.  
Paramus, NJ 07087

Please advise the undersigned, in writing, when this work has been completed.

THE PORT AUTHORITY OF N.Y. & N.J.  
ENGINEERING DEPT. QUALITY ASSURANCE DIV  
DESIGN STANDARDS

**PART TWO: Prepared by Port Authority and returned to Applicant**

The above Application is ☐ Approved ☐ Disapproved. Subject to the following conditions

☐ Continued on Rider "A," "B," "C," "F," and "G" (Rider G will be included only for the Professional Certification Program)

THE PORT AUTHORITY OF N.Y. & N.J.

INSPECTED BY	DATE
/ /	/ /

NOV 15 1999	
1999-1199	
RECEIVED	
ALTERATIONS APPLICATION	
TENANT CONSTRUCTION REVIEW UNIT	
BY	TITLE
/	Manager of Tenant and Technical Services/WTD
DATE	/ /